IBM ASSIGNMENT 2 - TO GET TEMPERATURE AND HUMIDITY VALUES AND DETECT ALARM INCASE OF HIGH TEMPERATURE.

```
import random
temperature=random.uniform(0,50)
#by using random.uniform function a random float value will be generated for temperature for example:25.718184973594976
print(temperature)
temperature=round(temperature, 1)
#by using round of function the decimal points in the temperature will be reduced for example:25.7
print(temperature)
#by using if condtion & elif condition the temperature level is observed
if(temperature==0):
   print("very cold")
 elif(temperature<=10):
   print("cold")
elif(temperature<=20):
   print("Room temperature")
elif(temperature<=30):
   print("hot")
  elif(temperature>30):
   print("very hot alarm will be on")
  else:
   print("surface of the sun")
humidity=random.randint(0,100)
#by using random.randint function a random int value will be generated for humidity for example:55
print (humidity)

#by using if condtion & elif condition the humidity level is observed
```

```
if(humidity==0):
    print("no humidity")
elif(humidity<=50):
    print("humidity is low")
elif(humidity<50):
   print("humidity is medium")
else:
    print("humidity is high alarm will be on")
```

OUTPUT:

```
48.381432848347664
48.4
very hot alarm will be on
27
humidity will be low
```